

# Neotropical Pterophoridae 1. The genus *Megalorrhipida* AMSEL, 1935 (Lepidoptera)

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**Abstract.** The Neotropical representatives of the genus *Megalorrhipida* AMSEL, 1935 are revised: the known *M. defectalis* (WALKER, 1864) and a species from southern Argentina, *M. pseudodefectalis* sp. n., are recognized.

**Samenvatting.** Neotropische Pterophoridae 1. Het genus *Megalorrhipida* AMSEL, 1935 (Lepidoptera)

Het genus *Megalorrhipida* AMSEL, 1935 wordt gereviseerd in het Neotropische fauna-gebied. In het genus worden onderscheiden: *M. defectalis* (WALKER, 1864) en een soort uit zuidelijk Argentinië *M. pseudodefectalis* sp. n.

**Résumé.** Pterophoridae néotropicaux 1. Le genre *Megalorrhipida* AMSEL, 1935 (Lepidoptera)

L'auteur effectue la révision du genre *Megalorrhipida* AMSEL, 1935 pour la faune néotropicale. Deux espèces composent ce genre: *M. defectalis* (WALKER, 1864) et *M. pseudodefectalis* sp. n. du sud de l'Argentine.

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The genus *Megalorrhipida* AMSEL, 1935 is placed near *Trichoptilus* and *Oxyptilus*. The exact position of the related genera is not clear yet. Both the genera *Trichoptilus* and *Oxyptilus* serve as dumping grounds for species resembling the known representatives of these genera. Apart from defining the genus *Megalorrhipida*, AMSEL also describes the differences with the genus *Trichoptilus*.

Genus *Megalorrhipida* AMSEL, 1935.

Type-species: *Megalorrhipida palaestinensis* AMSEL, 1935: 283, by monotypy and original designation.

**Diagnosis - Wing-venation.** Forewing: SC to costa, R1 short, R2 and R3 together, R4 and R5 together to apex of first lobe. M and CU together to apex of second lobe, AN to half the wing-length and AX short. Hindwings: SC, RR and M1 together (in *M. pseudodefectalis* sp. n. RR short), CU1 to apex of second lobe, CU2 to half the second lobe and AN as far as base of first cleft. The AN to apex of third lobe.

*Megalorrhipida defectalis* (WALKER, 1864) (figs. 1-3, 8)

*Pterophorus defectalis* WALKER, 1864: 943. Lectotype: Sierra Leone, D.F. Morgan (BMNH). Paralectotypes: data as lectotype and Congo, J. Richardson (BMNH) [examined].

*Trichoptilus defectalis* (WALKER); FLETCHER, 1910: 398; 1920: 621.

*Buckleria defectalis* (WALKER); FLETCHER, 1910: 398; 1920: 6.

*Pterophorus congrualis* WALKER, 1864: 943-944. Lectotype: South Hindostan, M.J. Walhouse (BMNH). Paralectotypes: China, G.T. Laye (BMNH) and China, Shanghai, coll. Entomological Society (BMNH) [examined].

*Trichoptilus congrualis* (WALKER); FLETCHER, 1926: 622.

*Pterophorus oxydactylus* WALKER, 1864: 944. Lectotype: Ceylon, M. Nietner (BMNH). Paralectotypes: same data as lectotype, (BMNH) [examined].

*Trichoptilus oxydactyla* (WALKER); WALSINGHAM, 1907: 471; PERKINS, 1913: clxii; FLETCHER, 1926: 623.

*Aciptilia hawaiiensis* BUTLER, 1881: 408.

*Trichoptilus hawaiiensis* (BUTLER); MEYRICK, 1888: 239.

*Trichoptilus ochrodactylus* FISH, 1881: 142. Holotype: U.S.A., Texas, G.W. Belfrage.

*Trichoptilus centetes* MEYRICK, 1886: 16. Holotype: New Guinea, Port Moresby, xi, G.F. Mathew (BMNH) [examined].

*Trichoptilus compsochondes* MEYRICK, 1886: 16. Holotype: Cape de Verde Islands, St. Vincent, i, G.F. Mathew (BMNH) [examined].

*Trichoptilus ralumensis* PAGENSTECHER, 1900: 239. Lectotype: Indonesia, Ralum, 24.X.1896, Dahl. Paralectotypes: data as lectotype, and Indonesia, Lowon Ralum, 2.I.1897, Dahl.

*Megalorrhipida palaestinensis* AMSEL, 1935: 283. Lectotype: Israel, Jericho, H.G. Amsel (LNK).

*Megalorrhipida defectalis* (WALKER); ADAMCZEWSKI, 1951: 382.

### **Redescription of *Megalorrhipida defectalis* (WALKER, 1864)**

Male, female. Wingspan 14-17 mm. Antennae ringed, shortly ciliated. Palpi short compared to eyediameter, yellow-brown. Head appressed scaled, ferruginous brown. Head, collar and thorax yellow-brown. Abdomen brown-yellow, with indistinct longitudinal creamy white and pale brown lines. Hindlegs with spur pairs of equal length.

Forewings (fig. 1) cleft from 1/2, yellow-brown. Markings brown. A small discal spot and ill-defined transverse bands on first lobe at base and middle and a faint darkening near the apex. Fringes yellow-brown, grey-brown at the dark spots and along the costa of the second lobe opposite the dark markings. At dorsum of second lobe dark, mixed with isolated black scales. Underside dark brown, paler along costa and toward the apex of both lobes.

Hindwings brown, fringes dark brown. An indistinct scale-tooth in the middle of the dorsum of the third lobe. Underside of first and second lobe brown, third lobe yellow-brown. Androconial scales ferruginous, in a double row, proceeding in a single row.

Variation. In the specimens from the Caribbean area the androconial scales are dark brown. In general the specimens examined from the Americas have a paler colour than those from Africa.

Male genitalia (fig. 2): genitalia symmetrical, valvae trapezoid, uncus swollen, vinculum rounded. Aedeagus small, tube like, without cornuti.

Female genitalia (fig. 3): bursa copulatrix with a pair of signa. Ductus bursae narrow, tube-like. Antrum flattened. Margin of 7th sternite excavated. Central segment of 8th sternite posteriorly extended. Apophyses anteriores absent. Apophyses posteriores 3 to 4 times longer than papillae anales.

### **Diagnosis**

Within the genus the species is characterized by the centrally placed scale tooth on the third lobe of the hindwing. In addition, the genitalia in both male and female are characteristic.

### **Distribution in the Neotropics**

Argentina: Salta, La Rioja. Brazil: no locality given. French Guyana: Nouveau Chantier. Virgin Islands: St. Croix. Distribution mapped in figs. 8a and 8b.



Figure 1 : *Megalorhipida defecialis* (WALKER, 1864), Tchad, Bebedija, 395 m, 24.VII.1973 (F.A. BINK) (CG).

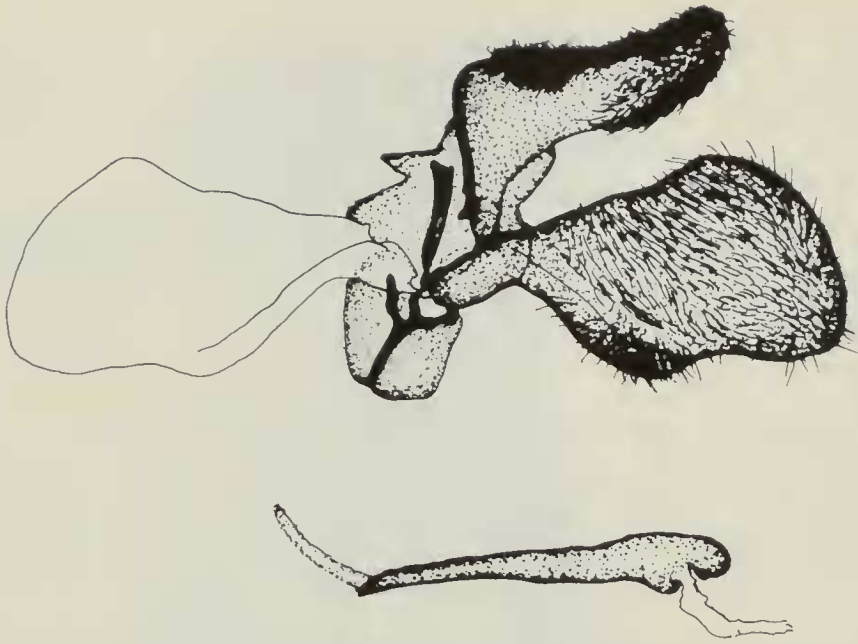


Figure 2 : *Megalorrhipida defectalis* (WALKER, 1864), male genitalia; Virgin Islands, St. Croix, 22.III.1980 (H.K. JENSEN), Genitalia slide CG 4080 (ZMUC).

*Megalorrhipida pseudodefektalis* sp. n. (figs. 4-8)

Holotype male, Argentina, Neuquen, Piedra del Aguila, 18.XII.1978 (*Mision Cientifica Danesa*, Sta. 15), Genitalia slide CG 4109 (ZMUC); paratypes: 2 males, 2 females, Argentina, Neuquen, Piedra del Aguila, 15.XI.1978, 18.XII.1978, 19.XII.1978 (*Mis. Cient. Danesa*, Sta. 15), Genitalia slides CG 4106, 4107 and wing-venation prep. CG 4113 (ZMUC, CG); 2 females, Argentina, Neuquen, Rio Limay, Arroyito, 17.XII.1978 (*Mis. Cient. Danesa*, Sta. 12), Genitalia slide CG 4108 (ZMUC); 1 male, 1 female, Argentina, Neuquen, N. of Chos Malal Barrancas, 850 m., 22.III.1979 (*Mis. Cient. Danesa*, Sta. 63) (ZMUC).

**Description**

Male, female. Wingspan 15-18 mm. Antennae ringed, white and brown, first segment large with brown brush, other segments shortly ciliated. Palpi a little larger than eye-diameter, creamy white. An indistinct ring at end of second segment and a distinct one at the end of the third. Head pale and grey-brown, appressed scaled. Collar and thorax pale brown. Abdomen with longitudinal creamy white and pale brown lines. Hindlegs ringed creamy white and dark brown. Spur pairs of equal length.

Forewings (fig. 4) colour and markings as in *M. defectalis* (WALKER). The discal spot and markings in the first lobe more pronounced and distinct. Fringes with more pronounced dark scales along the dorsal margin. Underside in a brown and creamy white pattern as above.



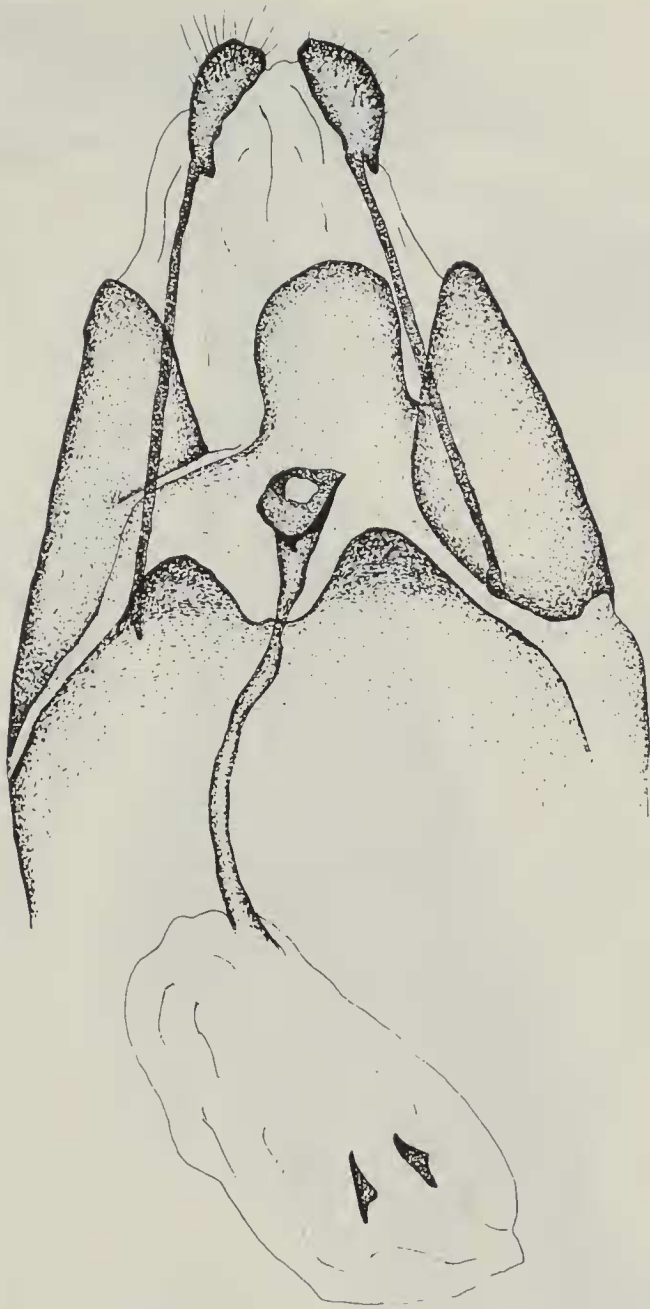


Figure 3 : *Megalorrhipida defectalis* (WALKER, 1864), female genitalia; Argentina, Salta, Los Toldos, 17-21.II.1960 (R. GOLBACH), Genitalia slide CG 4112 (ZMUC).



Figure 4 : *Megalorhipida pseudodeflectalis* sp. n., Paratype: Argentina, Neuquen, Río Limay, Arroyito, 17.IX.1978 (*Mision Cientifica Danesa*, Sta. 12).

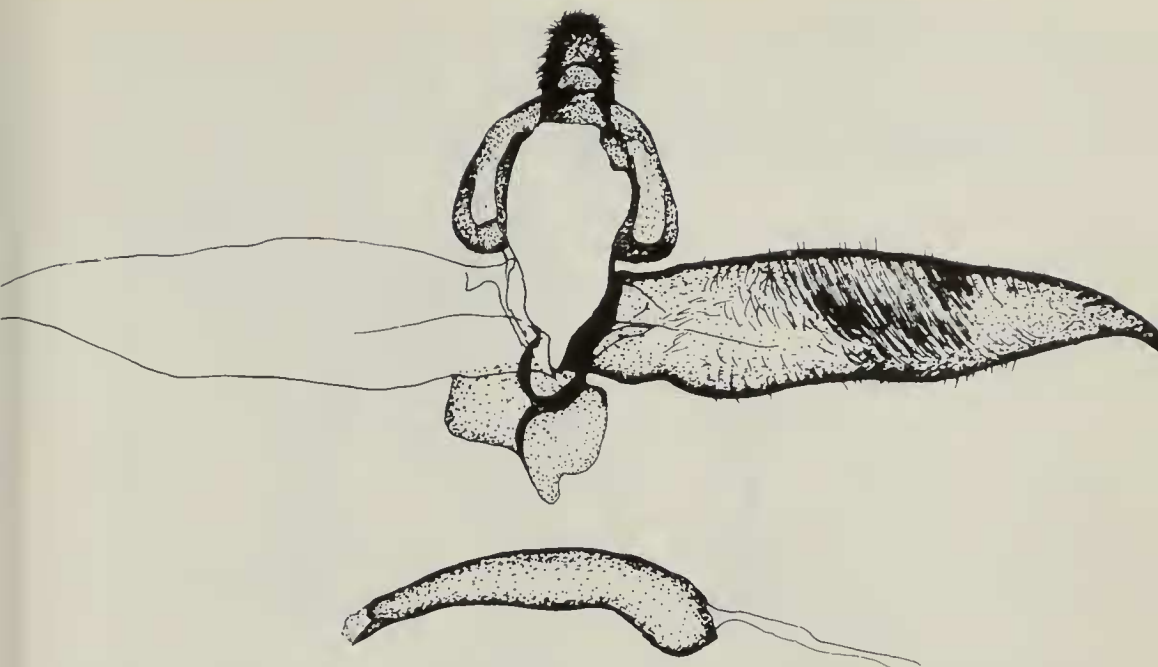


Figure 5 : *Megalorrhipida pseudodeflectalis* sp. n., Male genitalia, Holotype, Argentina, Neuquen, Piedra del Aguila, 18.XII.1978 (*Mision Cientifica Danesa*, Sta. 15), Genitalia slide CG 4109 (ZMUC).

Hindwings in the first and second lobe brown. The third lobe in the costal half brown and the dorsal half creamy white. Fringes grey-brown, along the dorsal margin of the third lobe basally white. The scale teeth at the dorsum of the third lobe consist of two small dark brown groups at  $2/3$  and subapical. Underside colour in the first and third lobe yellow-brown and in the second lobe brown. The androconial scale structure consists of a double row of dark brown scales, proceeding in a single row in the apical part of the second lobe.

Wing-venation (fig. 7) as in genus description with the exception of the small branch of RR in the hindwing.

Variation. In the limited material available no significant variation has been noticed.

Male genitalia (fig. 5): genitalia symmetrical. Valvae lanceolated, with some small thorns in the distal part. Tegumen arched, uncus wide but small. Vinculum blister-like. Aedeagus tube-like, a little arched, without cornuti.

Female genitalia (fig. 6): bursa copulatrix simple, with a double signum. The signum is formed by numerous grouped thorns. Ductus bursae narrow, little sclerotized. Antrum bursae straight, short. Apophyses anteriores absent. Apophyses posteriores approximately twice as long as papillae anales.

#### Diagnosis

Within the genus, the species is characterized by the double scale tooth at the third lobe of the hindwing. Besides, the genitalia structure in both male



Figure 6 : *Megalorrhipida pseudodeflectalis* sp. n., Female genitalia, Paratype, Argentina, Neuquen, Piedra del Aguila, 19.XII.1978 (*Mision Cientifica Danesa*, Sta. 15), Genitalia slide CG 4107 (ZMUC).





Figure 7 : *Megalorhipida pseudodeflectalis* sp. n., Wing-venation, same data as fig. 6, preparation CG 4113 (ZMUC).



Figure 8A : Distribution map : *Megalorhipida defectalis* (WALKER) in Central America.



Figure 8B : Distribution map : *Megalorrhipida defectalis* (WALKER) (circles) and *Megalorrhipida pseudodeflectalis* sp. n. (triangles).

and female are characteristic.

#### Distribution

Argentina : Neuquen. Distribution mapped in fig. 8.

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## De dazenfauna van Harchies (Zuidwest-Henegouwen) (Diptera : Tabanidae)

J.F. REICHWEIN

**Résumé.** Au sujet des taons de Harchies (Sud-ouest du Hainaut) (Diptera : Tabanidae) Deux camps d'étude ont été organisés entre le 16 juillet et le 4 août 1988 aux environs de Harchies, durant lesquels les taons de la région furent étudiés. 10 espèces ont été dénombrés.

**Abstract.** On the Tabanidae of Harchies (Southwest Hainaut) (Diptera : Tabanidae) From 16th July till 4th August 1988 the Tabanidae in the region of Harchies were studied. Ten species could be found.

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